

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/885,297B

Source: FW/b

Date Processed by STIC: 11/30/04

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 11/30/2004

PATENT APPLICATION: US/09/885,297B

TIME: 12:00:34

Input Set : A:\49955977.app

Output Set: N:\CRF4\11302004\I885297B.raw

AND

3 <110> APPLICANT: INGRAM, LONNIE  
 4 ZHOU, SHENGDE  
 6 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR SIMULTANEOUS SACCHARIFICATION  
 7 FERMENTATION  
 9 <130> FILE REFERENCE: 49950-59776US  
 11 <140> CURRENT APPLICATION NUMBER: 09/885,297B  
 12 <141> CURRENT FILING DATE: 2001-06-19  
 14 <150> PRIOR APPLICATION NUMBER: PCT/US01/19690  
 15 <151> PRIOR FILING DATE: 2001-06-19  
 17 <150> PRIOR APPLICATION NUMBER: 60/214,137  
 18 <151> PRIOR FILING DATE: 2000-06-26  
 20 <150> PRIOR APPLICATION NUMBER: 60/219,913  
 21 <151> PRIOR FILING DATE: 2000-07-21  
 23 <160> NUMBER OF SEQ ID NOS: 24  
 25 <170> SOFTWARE: PatentIn version 3.2  
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 28 <211> LENGTH: 450  
 29 <212> TYPE: DNA  
 30 <213> ORGANISM: Artificial Sequence  
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 33 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
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 39 cggtagcca taaccatttt acctgtccgg cggccttaat accttgatca gatggttcgt 120  
 41 ggtgttgta ccttgccgaa gggcaccggt aaaaatgttc gcgtcgggtg tttcgcccg 180  
 43 ggcccgaag ctgaagaagc taaagctgct ggtgcagaag ttgtcggcgc agaagacctg 240  
 45 atggaagcca ttcagggcgg cagcattgat ttcgatcgtg atgcccttta tactgaaatt 300  
 47 gccttgcgct gccataatga agcagcctcc ggtgttttgg cagatttaag cgctgcctga 360  
 49 ttttcgtgat cctctagagt ctatgaaatg gagattcatt tatgcctctc tcttattcgg 420  
 51 ataaccatcc agtcatccgc aagcttggcc 450  
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 56 <212> TYPE: DNA  
 57 <213> ORGANISM: Artificial Sequence  
 59 <220> FEATURE:  
 60 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 61 expression vector  
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 64 gatcaaccgg caatttatcc acggcatcaa attcgatctg tcttttcccg tatcattggc 60  
 66 aataccggca ttctgattac aggccgtgtt ttgaatgcgg tatgcagttt tgtctatgtc 120  
 68 gcatggacat cccagacatt gggattgaac ctgtttggtg tcatgctttt gattacgact 180  
 70 ttgctaccc tgatttcgga tattaccggt tttcagtcac ggcaaacctt gctgcattac 240

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72 gggtcaaaag cttttcagga aaaagatttt aaccaatttg atgatgtcct tgccttttgc 300
74 atcagagccg atttttttag tgcggcgata ggtatgttg tagggttagg cggatatttg 360
76 atttttaggca cttcaagatt gggatggcct gccgaggta agccagatgc cttgctttgt 420
78 atgctgatta tactttttat gaatatcggc tgggtccaacc gggatgttg ggctgtgtaa 480
80 ccgcttttaa ctggctacta tttatgagtt tattacgacc tgcgtcagaa ccggagggtg 540
82 tggcattggg tattggcttc atatgccttt ggggtatttt ttgtttatat ggtgcctgac 600
84 gcaattcacg ctttttgtca cctgtagtta cgctggcatt tatctctttc accaatatac 660
86 ggagcgagca tttccgataa gaaaaatatt tcagagaaaa acgcccgttg aagggatgtg 720
88 gaaattcact ttaagcgtca gttttaatga aatcctagac tccattttcc agcagggtgg 780
90 cacccttgct attggtagct cactgggggc tggggaagcc gctgtctatc gggtcgcgcg 840
92 ccagattagt aacggtttat ccaaaccagc acagatgatg atcggctaac atgcatccac 900
94 cggcagcacc ggccgtttta tgcttgggat tattgatatg ccgaaaagga tacaacatct 960
96 ggaagaaaaa gacgaaggcc ggaataagcg cccattctgc aaaattgtta caacttagtc 1020
98 gcgccatcag ggaatgaaaa atcaatccgt ctttttcggc atgagcaacc aacattttca 1080
100 aggtatcatc ctgatgcgca atatcggcat cggttagcca taaccatttt acctgtccgg 1140
102 cggccttaat acctgatca gatggttcgt ggtgttgta ccttgccgaa gggcacccgt 1200
104 aaaaatgttc gcgtcgggtg tttcgcccg ggcgcgaaag ctgaagaagc taaagctgct 1260
106 ggtgcagaag ttgtcggcgc agaagacctg atggaagcca ttcagggcgg cagcattgat 1320
108 ttcgatcgtg atgcccttta tactgaaatt gccttgctg gccataatga agcagcctcc 1380
110 ggtgttttgg cagatttaag cgctgcctga ttttcgtgat cctctagagt ctatgaaatg 1440
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122 <220> FEATURE:
123 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer
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135 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer
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155 <212> TYPE: DNA

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182 <220> FEATURE:
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195 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer
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201 <210> SEQ ID NO: 10
202 <211> LENGTH: 30
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial Sequence
206 <220> FEATURE:
207 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer
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227 <211> LENGTH: 11544
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240 <221> NAME/KEY: modified_base
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242 <223> OTHER INFORMATION: a, c, g, t, unknown, or other
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245 <221> NAME/KEY: CDS
246 <222> LOCATION: (4916)..(5776)
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249 <221> NAME/KEY: CDS
250 <222> LOCATION: (7061)..(8251)
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253 <221> NAME/KEY: modified_base
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260 aataccggca ttctgattac aggccgtggt ttgaatgcgg tatgcagttt tgtctatgtc      120
262 gcatggacat cccagacatt gggattgaac ctgtttggtg tcatgctttt gattacgact      180
264 tttgctaccc tgatttcgga tattaccggt tttcagtcac ggcaaaccct gctgcattac      240
266 ggttcaaaaag cttttcagga aaaagatttt aaccaatttg atgatgtcct tgccttttgc      300
268 atcagagccg atttttttag tgcggcgata ggtatggttg tagggtagg cggtatcttg      360
270 atttttaggca cttcaagatt gggatggcct gccgaggtca agccagatgc cttgctttgt      420
272 atgctgatta tactttttat gaatatcggc tgggccaaacc gggatgttgc ggctgtgtaa      480
274 ccgcttttaa ctggtcacta tttatgagtt tattacgacc tgcgtcagaa ccggagggtg      540
276 tggcattggg tattggcttc atatgccttt ggggtatttt ttgtttatat ggtgcctgac      600
278 gcaattcacg ctttttgtca cctgtagtta cgctggcatt tatctctttc accaatatac      660
280 ggagcgcagc tttccgataa gaaaaatatt tcagagaaaa acgcccgttg aagggatgtg      720
282 gaaattcact ttaagcgtca gttttaatga aatcctagac tccattttcc agcagggtgg      780
284 cacccttgct attggtagct cactgggggc tggggaagcc gctgtctatc gggtcgcgcg      840
286 ccagattagt aacggtttat ccaaaccagc acagatgatg atcggctaac atgcatccac      900
288 cggcagcacc ggccgtttta tgcttgggat tattgatatg ccgaaaagga tacaacatct      960
290 ggaagaaaaa gacgaaggcc ggaataagcg ccattctgc aaaattgtta caacttagtc      1020
292 gcgccatcag ggaatgaaaa atcaatccgt ctttttcggc atgagcaacc aacattttca      1080
294 aggtatcatc ctgatgcgca atatcggcac cggttagcca taaccatttt acctgtccgg      1140
296 cggccttaat acctgatca gatggttcgt ggtgttgta ccttgccgaa gggcaccggt      1200
298 aaaaatgttc gcgtcgggtg tttcgcccgt ggcccgaaag ctgaagaagc taaagctgct      1260
300 ggtgcagaag ttgtcggcgc agaagacctg atggaagcca ttcagggcgg cagcattgat      1320
302 ttcgatcgtg atgcccttta tactgaaatt gccttgcgct gccataatga agcagcctcc      1380
304 ggtgttttgg cagatttaag cgctgcctga ttttcgtgat cctctagagt ctatgaaatg      1440
306 gagattcatt t atg cct ctc tct tat tgc gat aac cat cca gtc atc gat      1490
307     Met Pro Leu Ser Tyr Ser Asp Asn His Pro Val Ile Asp
308     1             5             10

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| 310 | agc | caa | aaa | cac | gcc | cca | cgt | aaa | aaa | ctg | ttt | cta | tct | tgt | gcc | tgt | 1538 |
| 311 | Ser | Gln | Lys | His | Ala | Pro | Arg | Lys | Lys | Leu | Phe | Leu | Ser | Cys | Ala | Cys |      |
| 312 | 15  |     |     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     |      |
| 314 | tta | gga | tta | agc | ctt | gcc | tgc | ctt | tcc | agt | aat | gcc | tgg | gcg | agt | gtt | 1586 |
| 315 | Leu | Gly | Leu | Ser | Leu | Ala | Cys | Leu | Ser | Ser | Asn | Ala | Trp | Ala | Ser | Val |      |
| 316 | 30  |     |     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |      |
| 318 | gag | ccg | tta | tcc | gtt | agc | ggc | aat | aaa | atc | tac | gca | ggg | gaa | aaa | gcc | 1634 |
| 319 | Glu | Pro | Leu | Ser | Val | Ser | Gly | Asn | Lys | Ile | Tyr | Ala | Gly | Glu | Lys | Ala |      |
| 320 |     |     |     |     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |      |
| 322 | aaa | agt | ttt | gcc | ggc | aac | agc | tta | ttc | tgg | agt | aat | aat | ggg | tgg | ggg | 1682 |
| 323 | Lys | Ser | Phe | Ala | Gly | Asn | Ser | Leu | Phe | Trp | Ser | Asn | Asn | Gly | Trp | Gly |      |
| 324 |     |     |     | 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     |      |
| 326 | ggg | gaa | aaa | ttc | tac | aca | gcc | gat | acc | gtt | gcg | tcg | ctg | aaa | aaa | gac | 1730 |
| 327 | Gly | Glu | Lys | Phe | Tyr | Thr | Ala | Asp | Thr | Val | Ala | Ser | Leu | Lys | Lys | Asp |      |
| 328 |     |     | 80  |     |     |     |     | 85  |     |     |     | 90  |     |     |     |     |      |
| 330 | tgg | aaa | tcc | agc | att | gtt | cgc | gcc | gct | atg | ggc | gtt | cag | gaa | agc | ggg | 1778 |
| 331 | Trp | Lys | Ser | Ser | Ile | Val | Arg | Ala | Ala | Met | Gly | Val | Gln | Glu | Ser | Gly |      |
| 332 | 95  |     |     |     |     | 100 |     |     |     | 105 |     |     |     |     |     |     |      |
| 334 | ggg | tat | ctg | cag | gac | ccg | gct | ggc | aac | aag | gcc | aaa | gtt | gaa | aga | gtg | 1826 |
| 335 | Gly | Tyr | Leu | Gln | Asp | Pro | Ala | Gly | Asn | Lys | Ala | Lys | Val | Glu | Arg | Val |      |
| 336 | 110 |     |     |     |     | 115 |     |     |     | 120 |     |     |     |     | 125 |     |      |
| 338 | gtg | gat | gcc | gca | atc | gcc | aac | gat | atg | tat | gtg | att | att | gac | tgg | cac | 1874 |
| 339 | Val | Asp | Ala | Ala | Ile | Ala | Asn | Asp | Met | Tyr | Val | Ile | Ile | Asp | Trp | His |      |
| 340 |     |     |     |     | 130 |     |     |     |     | 135 |     |     |     | 140 |     |     |      |
| 342 | tca | cat | tct | gca | gaa | aac | aat | cgc | agt | gaa | gcc | att | cgc | ttc | ttc | cag | 1922 |
| 343 | Ser | His | Ser | Ala | Glu | Asn | Asn | Arg | Ser | Glu | Ala | Ile | Arg | Phe | Phe | Gln |      |
| 344 |     |     |     | 145 |     |     |     | 150 |     |     |     | 155 |     |     |     |     |      |
| 346 | gaa | atg | gcg | cgc | aaa | tat | ggc | aac | aag | ccg | aat | gtc | att | tat | gaa | atc | 1970 |
| 347 | Glu | Met | Ala | Arg | Lys | Tyr | Gly | Asn | Lys | Pro | Asn | Val | Ile | Tyr | Glu | Ile |      |
| 348 |     |     | 160 |     |     |     |     | 165 |     |     |     | 170 |     |     |     |     |      |
| 350 | tac | aac | gag | ccg | ctt | cag | gtt | tca | tgg | agc | aat | acc | att | aaa | cct | tat | 2018 |
| 351 | Tyr | Asn | Glu | Pro | Leu | Gln | Val | Ser | Trp | Ser | Asn | Thr | Ile | Lys | Pro | Tyr |      |
| 352 | 175 |     |     |     |     | 180 |     |     |     | 185 |     |     |     |     |     |     |      |
| 354 | gcc | gaa | gcc | gtg | att | tcc | gcc | att | cgc | gcc | att | gac | ccg | gat | aac | ctg | 2066 |
| 355 | Ala | Glu | Ala | Val | Ile | Ser | Ala | Ile | Arg | Ala | Ile | Asp | Pro | Asp | Asn | Leu |      |
| 356 | 190 |     |     |     |     | 195 |     |     |     | 200 |     |     |     |     | 205 |     |      |
| 358 | att | att | gtc | ggg | acg | ccc | agt | tgg | tcg | caa | aac | gtt | gat | gaa | gcg | tcg | 2114 |
| 359 | Ile | Ile | Val | Gly | Thr | Pro | Ser | Trp | Ser | Gln | Asn | Val | Asp | Glu | Ala | Ser |      |
| 360 |     |     |     |     | 210 |     |     |     |     | 215 |     |     |     | 220 |     |     |      |
| 362 | cgc | gat | cca | atc | aac | gcc | aag | aat | atc | gcc | tat | acg | ctg | cat | ttc | tac | 2162 |
| 363 | Arg | Asp | Pro | Ile | Asn | Ala | Lys | Asn | Ile | Ala | Tyr | Thr | Leu | His | Phe | Tyr |      |
| 364 |     |     |     | 225 |     |     |     | 230 |     |     |     | 235 |     |     |     |     |      |
| 366 | gcg | gga | acc | cat | ggg | gag | tca | tta | cgc | act | aaa | gcc | cgc | cag | gcg | tta | 2210 |
| 367 | Ala | Gly | Thr | His | Gly | Glu | Ser | Leu | Arg | Thr | Lys | Ala | Arg | Gln | Ala | Leu |      |
| 368 |     |     | 240 |     |     |     |     | 245 |     |     |     | 250 |     |     |     |     |      |
| 370 | aat | aac | ggg | att | gcg | ctt | ttc | gtc | acc | gag | tgg | ggc | gcc | gtt | aac | gcg | 2258 |
| 371 | Asn | Asn | Gly | Ile | Ala | Leu | Phe | Val | Thr | Glu | Trp | Gly | Ala | Val | Asn | Ala |      |
| 372 | 255 |     |     |     |     | 260 |     |     |     | 265 |     |     |     |     |     |     |      |
| 374 | gac | ggc | aat | ggc | gga | gtg | aac | cag | aca | gat | acc | gac | gcc | tgg | gta | acg | 2306 |



RAW SEQUENCE LISTING ERROR SUMMARY  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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L:432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3275  
L:434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3335  
L:436 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3395  
L:438 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3455  
L:440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3515  
L:442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3575  
L:444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3635  
L:446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3695  
L:448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3755  
L:450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3815  
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L:454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3935  
L:456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3995  
L:458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:4055  
L:460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:4115  
L:462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:4175  
L:464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:4235  
L:746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9451  
L:748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9511  
L:750 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9571  
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L:756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9751  
L:758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9811  
L:760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9871  
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L:766 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10051  
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L:770 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10171  
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L:790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10771  
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L:796 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10951  
L:798 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:11011  
L:800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:11071  
L:802 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:11131  
L:804 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:11191  
L:806 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:11251

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L:812 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:11431  
L:814 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:11491  
L:890 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:120  
L:892 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:180  
L:894 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:240  
L:896 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:300  
L:898 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:360  
L:900 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:420  
L:902 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:480  
L:904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:540  
L:906 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:600  
L:908 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:660  
L:910 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:720  
L:912 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:780  
L:914 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:840  
L:916 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:900  
L:918 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:960  
L:920 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:1020  
L:922 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:1080  
L:924 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:1140  
L:1076 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:5700  
L:1078 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:5760  
L:1080 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:5820  
L:1082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:5880  
L:1084 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:5940  
L:1086 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6000  
L:1088 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6060  
L:1090 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6120  
L:1092 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6180  
L:1094 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6240  
L:1096 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6300  
L:1098 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6360  
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L:1106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6600  
L:1108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6660  
L:1110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6720  
L:1112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6780  
L:1114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6840  
L:1116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6900  
L:1118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6960  
L:1120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7020  
L:1122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7080  
L:1124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7140  
L:1126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7200  
L:1128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7260

**VERIFICATION SUMMARY**

DATE: 11/30/2004

PATENT APPLICATION: US/09/885,297B

TIME: 12:00:35

Input Set : A:\49955977.app

Output Set: N:\CRF4\11302004\I885297B.raw

L:1130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7320  
L:1132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7380  
L:1134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7440  
L:1136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7500  
L:1138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7560